

FORM PTO-1390  
(REV 10-2000)

DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371

01017/LH

U.S. APPLICATION NO. (If known, see 37 CFR 1.53) 09/744363

INTERNATIONAL APPLICATION NO.  
PCT/JP99/03993INTERNATIONAL FILING DATE  
26 July 1999PRIORITY DATE CLAIMED  
27 July 1998

TITLE OF INVENTION EPITAXIAL GROWTH FURNACE

APPLICANT(S) FOR DO/EO/US Shinji NAKAHARA; Masato IMAI; Masanori MAYUSUMI;  
Kazutoshi INOUE & Shintoshii GIMA.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to promptly begin national examination procedures (35 U.S.C. 371(f)).
4. ☐ The US has been elected by the expiration of 19 months from the priority date (PCT Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

## Items 11 to 16 below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98; PTO-1449; 3 references.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A FIRST preliminary amendment.  
☐ A SECOND or SUBSEQUENT preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☒ Other items or information:

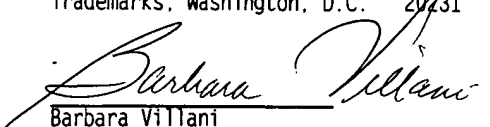
4 sheets formal drawings  
(Figs. 1-4c); Int. Search Report  
(attached to Int'l. publ.);  
Request Form PCT/RO/101; Forms  
PCT/IB/301; 304; 308; 332;  
PCT/IPEA/416; 409.

Express Mail Mailing Label

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Date of Deposit: Jan. 23, 2001

I hereby certify that this paper is being  
deposited with the United States Postal Service  
"Express Mail Post Office to Addressee" service  
under 37 CFR 1.10 on the date indicated above and  
is addressed to the Commissioner of Patents and  
Trademarks, Washington, D.C. 20231

  
Barbara Villani

17. ☒ The following fees are submitted:**BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) :**Neither international preliminary examination fee (37 CFR 1.482)  
nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO  
and International Search Report not prepared by the EPO or JPO ..... **\$1000.00**International preliminary examination fee (37 CFR 1.482) not paid to  
USPTO but International Search Report prepared by the EPO or JPO ..... **\$860.00**International preliminary examination fee (37 CFR 1.482) not paid to USPTO but  
international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... **\$710.00**International preliminary examination fee paid to USPTO (37 CFR 1.482)  
but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... **\$690.00**International preliminary examination fee paid to USPTO (37 CFR 1.482)  
and all claims satisfied provisions of PCT Article 33(1)-(4) ..... **\$100.00****ENTER APPROPRIATE BASIC FEE AMOUNT =****CALCULATIONS PTO USE ONLY**

\$ 860.00

Surcharge of **\$130.00** for furnishing the oath or declaration later than ☐ 20 ☐ 30  
months from the earliest claimed priority date (37 CFR 1.492(e)).

\$

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	4 - 20 =	0	X \$18.00
Independent claims	1 - 3 =	0	X \$80.00

\$

\$

MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$270.00

\$

**TOTAL OF ABOVE CALCULATIONS =**

\$ 860.00

☐ Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above  
are reduced by 1/2.

\$

**SUBTOTAL =**

\$ 860.00

Processing fee of **\$130.00** for furnishing the English translation later than ☐ 20 ☐ 30  
months from the earliest claimed priority date (37 CFR 1.492(f)).

\$

**TOTAL NATIONAL FEE =**

\$ 860.00

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be  
accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). **\$40.00** per property +

\$

**TOTAL FEES ENCLOSED =**

\$ 860.00

Amount to be  
refunded:

\$

charged:

\$

a. ☒ A check in the amount of \$ 860.00 to cover the above fees is enclosed.b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any  
overpayment to Deposit Account No. 06-1378. A duplicate copy of this sheet is enclosed.**NOTE:** Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR  
1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

FRISHAUF, HOLTZ, GOODMAN, LANGER & CHICK  
767 Third Avenue - 25th floor  
New York, N.Y. 10017-2023

SIGNATURE:

Leonard Holtz

NAME

22,974

REGISTRATION NUMBER

Dated: Jan. 23, 2001

LH: bv

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Application No. :**

**U.S. National Serial No. :**

**PCT International Application No. : PCT/JP99/03993**

**VERIFICATION OF A TRANSLATION**

**I, the undersigned translator, hereby declare that :**

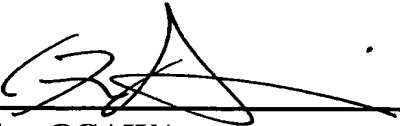
**My name and post office address are as stated below;**

**That I am knowledgeable in the Japanese language in which the below identified international application was filed, and that I believe the English translation of the international application No. PCT/JP99/03993 is a true and complete translation of the above identified international application as filed.**

**I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardize the validity of the application or any patent issued thereon.**

**Dated this 10th day of January, 2001, at Tokyo, Japan**

**Full name of the translator :**

  
\_\_\_\_\_  
**Gen OGAWA**

**Post Office Address :**

**SANWA INTERNATIONAL PATENT OFFICE,  
Syuwa No. 2 Tranomon Bldg.,  
21-19, Toranomon 1-chome, Minato-ku, Tokyo,  
105-0001 JAPAN**